Richard Schnizer

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=> d his

     (FILE 'REGISTRY' ENTERED AT 11:57:33 ON 26 APR 2004)
                DEL HIS Y
                ACT SCHNIZER/A
               ---------
L1   (    539050)SEA FILE=REGISTRY ABB=ON  PLU=ON  591.49.57/RID
L2   (   1199182)SEA FILE=REGISTRY ABB=ON  PLU=ON  (46.150.18 /RID AND NC<2 AND
L3   (     65359)SEA FILE=REGISTRY ABB=ON  PLU=ON  L1 AND NC<2 AND NRS=1
L4   (     60940)SEA FILE=REGISTRY ABB=ON  PLU=ON  L3 AND (N/ELS OR O/ELS OR S/E
L5   (   1260122)SEA FILE=REGISTRY ABB=ON  PLU=ON  L4 OR L2
L6               STR
L7   (    826409)SEA FILE=REGISTRY ABB=ON  PLU=ON  L5 NOT (PMS/CI OR M/ELS OR X/
L8         1975 SEA FILE=REGISTRY SUB=L7 SSS FUL L6
                ---------

     FILE 'CAPLUS' ENTERED AT 13:22:33 ON 26 APR 2004

     FILE 'REGISTRY' ENTERED AT 13:22:43 ON 26 APR 2004

     FILE 'CAPLUS' ENTERED AT 13:23:55 ON 26 APR 2004
L9          1937 S L8
L10        33398 S OLIGONUCLEOTID?
L11            2 S L10 AND L9
L12      1202236 S  NUCLEOTID? OR POLYNUCLEOTI? OR VECTOR OR PLASMID OR GENE OR
L13      1544670 S POLYPEPTIDE? OR PROTEIN? OR ANTIGEN? OR POLYSACCHARID?
L14           14 S L9 (L) L12
L15           21 S L13 (L)  L9
L16           33 S L11  OR L14 OR L15
L17            5 S NUCLEIC AND L9
L18           35 S L17 OR L16
L19       448537 S TRANSPORT?
L20            2 S L19 (L) L8
```

```
=> fil reg
FILE 'REGISTRY' ENTERED AT 13:29:11 ON 26 APR 2004
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    23 APR 2004  HIGHEST RN 676578-75-9
DICTIONARY FILE UPDATES:   23 APR 2004  HIGHEST RN 676578-75-9

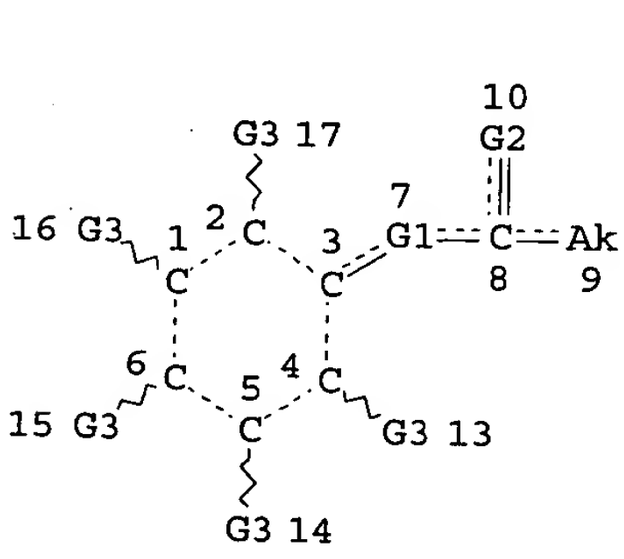
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

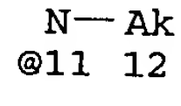
  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

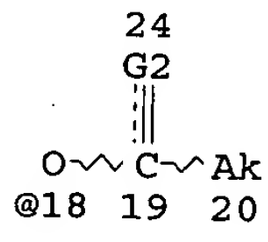
Crossover limits have been increased.  See HELP CROSSOVER for details.

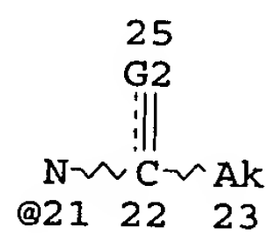
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d que stat l8
L1   (    539050)SEA FILE=REGISTRY ABB=ON  PLU=ON  591.49.57/RID
L2   (   1199182)SEA FILE=REGISTRY ABB=ON  PLU=ON  (46.150.18 /RID AND NC<2 AND
                 (N/ELS OR O/ELS OR S/ELS) AND NRS=1 )NOT PMS/CI
L3   (     65359)SEA FILE=REGISTRY ABB=ON  PLU=ON  L1 AND NC<2 AND NRS=1
L4   (     60940)SEA FILE=REGISTRY ABB=ON  PLU=ON  L3 AND (N/ELS OR O/ELS OR
                 S/ELS)
L5   (   1260122)SEA FILE=REGISTRY ABB=ON  PLU=ON  L4 OR L2
L6               STR
```




```
VAR G1=O/N
VAR G2=O/S/11
VAR G3=H/18/21
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT  IS M5-X23 C  AT   9
ECOUNT  IS M1-X18 C  AT  12
ECOUNT  IS M5-X23 C  AT  20
ECOUNT  IS M5-X23 C  AT  23
```

```
GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  25

STEREO ATTRIBUTES: NONE
L7   (    826409)SEA FILE=REGISTRY ABB=ON  PLU=ON  L5 NOT (PMS/CI OR M/ELS OR
                 X/ELS)
L8         1975 SEA FILE=REGISTRY SUB=L7 SSS FUL L6

 99.4% PROCESSED  287300 ITERATIONS   (    45 INCOMPLETE)    1975 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.23.17

PROJECTIONS (WITHIN SPECIFIED SUBSET):            ONLINE  **COMPLETE**
PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET):      288927 TO   288927
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET):           1975 TO     2119
```

Did not quite process to 100% (99.4%) System timed out. let me know if this is a problem.

```
=> fil caplus
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FILE COVERS 1907 - 26 Apr 2004  VOL 140 ISS 18
FILE LAST UPDATED: 25 Apr 2004  (20040425/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d que nos l18
L1   (    539050)SEA FILE=REGISTRY ABB=ON  PLU=ON  591.49.57/RID
L2   (   1199182)SEA FILE=REGISTRY ABB=ON  PLU=ON  (46.150.18 /RID AND NC<2 AND
                 (N/ELS OR O/ELS OR S/ELS) AND NRS=1 )NOT PMS/CI
L3   (     65359)SEA FILE=REGISTRY ABB=ON  PLU=ON  L1 AND NC<2 AND NRS=1
L4   (     60940)SEA FILE=REGISTRY ABB=ON  PLU=ON  L3 AND (N/ELS OR O/ELS OR
                 S/ELS)
L5   (   1260122)SEA FILE=REGISTRY ABB=ON  PLU=ON  L4 OR L2
L6               STR
L7   (    826409)SEA FILE=REGISTRY ABB=ON  PLU=ON  L5 NOT (PMS/CI OR M/ELS OR
                 X/ELS)
L8         1975 SEA FILE=REGISTRY SUB=L7 SSS FUL L6
L9         1937 SEA FILE=CAPLUS ABB=ON  PLU=ON  L8
L10       33398 SEA FILE=CAPLUS ABB=ON  PLU=ON  OLIGONUCLEOTID?/OBI
L11           2 SEA FILE=CAPLUS ABB=ON  PLU=ON  L10 AND L9
L12     1202236 SEA FILE=CAPLUS ABB=ON  PLU=ON  NUCLEOTID?/OBI OR POLYNUCLEOTI?
```

4/26/04

```
                /OBI OR VECTOR/OBI OR PLASMID/OBI OR GENE/OBI OR DNA/OBI OR
                RNA/OBI
L13       1544670 SEA FILE=CAPLUS ABB=ON  PLU=ON  POLYPEPTIDE?/OBI OR PROTEIN?/OB
                I OR ANTIGEN?/OBI OR POLYSACCHARID?/OBI
L14            14 SEA FILE=CAPLUS ABB=ON  PLU=ON  L9 (L) L12
L15            21 SEA FILE=CAPLUS ABB=ON  PLU=ON  L13 (L)  L9
L16            33 SEA FILE=CAPLUS ABB=ON  PLU=ON  L11 OR L14 OR L15
L17             5 SEA FILE=CAPLUS ABB=ON  PLU=ON  NUCLEIC/OBI AND L9
L18            35 SEA FILE=CAPLUS ABB=ON  PLU=ON  L17 OR L16


=> d que nos l20
L1   (    539050)SEA FILE=REGISTRY ABB=ON  PLU=ON  591.49.57/RID
L2   (   1199182)SEA FILE=REGISTRY ABB=ON  PLU=ON  (46.150.18 /RID AND NC<2 AND
                (N/ELS OR O/ELS OR S/ELS) AND NRS=1 )NOT PMS/CI
L3   (     65359)SEA FILE=REGISTRY ABB=ON  PLU=ON  L1 AND NC<2 AND NRS=1
L4   (     60940)SEA FILE=REGISTRY ABB=ON  PLU=ON  L3 AND (N/ELS OR O/ELS OR
                S/ELS)
L5   (   1260122)SEA FILE=REGISTRY ABB=ON  PLU=ON  L4 OR L2
L6               STR
L7   (    826409)SEA FILE=REGISTRY ABB=ON  PLU=ON  L5 NOT (PMS/CI OR M/ELS OR
                X/ELS)
L8          1975 SEA FILE=REGISTRY SUB=L7 SSS FUL L6
L19       448537 SEA FILE=CAPLUS ABB=ON  PLU=ON  TRANSPORT?/OBI
L20            2 SEA FILE=CAPLUS ABB=ON  PLU=ON  L19 (L) L8


=> d .ca hitstr l18 1-35

L18  ANSWER 1 OF 35  CAPLUS  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:          2004:131057  CAPLUS
DOCUMENT NUMBER:           140:280965
TITLE:                     Histone deacetylase (HDAC) inhibitor activation of
                           p21WAF1 involves changes in promoter-associated
                           proteins, including HDAC1
AUTHOR(S):                 Gui, C.-Y.; Ngo, L.; Xu, W. S.; Richon, V. M.; Marks,
                           P. A.
CORPORATE SOURCE:          Cell Biology Program, Memorial Sloan-Kettering Cancer
                           Center, New York, NY, 10021, USA
SOURCE:                    Proceedings of the National Academy of Sciences of the
                           United States of America (2004), 101(5), 1241-1246
                           CODEN: PNASA6; ISSN: 0027-8424
PUBLISHER:                 National Academy of Sciences
DOCUMENT TYPE:             Journal
LANGUAGE:                  English
AB   Histone deacetylase (HDAC) inhibitors (HDACi) cause cancer cell growth
     arrest and/or apoptosis in vivo and in vitro.  The HDACi suberoylanilide
     hydroxamic acid (SAHA) is in phase I/II clin. trials showing significant
     anticancer activity.  Despite wide distribution of HDACs in chromatin,
     SAHA alters the expression of few genes in transformed cells.  P21WAF1 is
     one of the most commonly induced.  SAHA does not alter the expression of
     p27KIPI, an actively transcribed gene, or globin, a silent gene, in ARP-1
     cells.  Here we studied SAHA-induced changes in the p21WAF1 promoter of
     ARP-1 cells to better understand the mechanism of HDACi gene activation.
     Within 1 h, SAHA caused modifications in acetylation and methylation of
     core histones and increased DNase I sensitivity and restriction enzyme
     accessibility in the p21WAF1 promoter.  These changes did not occur in the
     p27KIPI or ε-globin gene-related histones.  The HDACi caused a
     marked decrease in HDAC1 and Myc and an increase in RNA polymerase II in
     proteins bound to the p21WAF1 promoter.  Thus, this study identifies
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